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PATENT COOPERATION TREATY PCT

INTERNATIONALSEARCHREPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference

10003828WO01 .	ACTION	ACTION as well as, where applicable, item						
International application No.	International filing date	(day/month/year)	(Earliest) Priority Date (day/month/year)					
PCT/JP2004/0197	63 24.12.	2004	25.12.2003					
Applicant	l							
CANON KABUSHIKI KAISHA								
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of 6 sheets.								
It is also accompanied by a copy of each prior art document cited in this report.								
 Basis of the report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). 								
b. V With regard to any nu	:leotide and/or amino acid seq	ruence disclosed in t	the international application, see Box No. I.					
2. Certain claims were f	ound unsearchable (See Box II). .						
3. Unity of invention is 1	acking (See Box III).							
4. With regard to the title,			•					
the text is approved a	s submitted by the applicant.							
the text has been esta	blished by this Authority to re	ad as follows:						
			• .					
·								
	•							
			•					
5. With regard to the abstract,								
	submitted by the applicant.							
			y as it appears in Box No. IV. The applicant h report, submit comments to this Authority.					
6. With regard to the drawings,		•						
a. the figure of the drawings to	be published with the abstrac	at is Figure No						
as suggested by the	e applicant.	•						
as selected by this	Authority, because the applicar	nt failed to suggest a	figure.					
as selected by this	Authority, because this figure b	better characterizes th	he invention.					
b. ∇ none of the figures is to	be published with the abstract.							

International application No.

PCT/JP2004/019763

Box N	lo. I	Nucleoti	de and/or a	mino acid	l sequence	(s) (Continua	tion of ite	m1.b of	the first sheet)		
						ence disclosed t on the basi		ternation	nal application a	nd necessary	to the claimed
a.	type o	f material		•							
	F	. a sequenc	_								
	Г	table(s) re	elated to the	sequence	listing						
b.	format	of material			•						•
		in written									
	V	. in compu	ter readable	form							
C.		f filing/furni	_								
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2. 🔽	. *					r the purposes			d/or table relati		
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3. Add	ditional	comments:							•		1 .
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International application No. PCT/JP2004/019763

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such ar extent that no meaningful international search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
See Extra Sheet.
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Claim 1-4 relevant to only a probe set comprising the probe No.0 in Table 1-1
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

International application No. PCT/JP2004/019763

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl.7C12N15/11, C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) Int.Cl. Cl2N15/11 - 15/62, Cl2Q1/68

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
WPI/BIOSIS (DIALOG), PUBMED, JSTPlus, GenBank/EMBL/DDBJ/GeneSeq

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ARGUELLO R. et al., A novel method for simultaneous high resolution identification of HLA-A, HLA-B, and HLA-Cw alleles, Proc.Natl.Acad.Sci.USA (1996), Vol.93, p.10961-10965	1,2,4 3
A	BAROUCH D. et al., HLA-A2 subtypes are functionally distinct in peptide binding and presentation, J.Exp.Med.(1995), Vol.182, No.6, p.1847-1856	1 - 4
А	SHANKARKUMAR U. et al., Novel HLA Class I Alleles Associated with Indian Leprosy Patients, J.Biomed.Biotechnol.(2003/Aug), Vol.2003, No.3, p.208-211	1 - 4

ত	Further documents are listed in the continuation of Box C.	ſ	See patent family annex.			
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance			understand the principle or theory underlying the invention			
 "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 		" X "	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone			
		"Ү"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family			
Date	of the actual completion of the international search	Dat	e of mailing of the international search report			
	13.04.2005		10. 5. 2005			
Nam	e and mailing address of the ISA/JP	Aut	horized officer 4B 9 4 5 3			
	Japan Patent Office	•	HAJIME KAMIJO			

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Form PCT/ISA/210 (second sheet) (January 2004)

3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan

International application No. PCT/JP2004/019763

	PCT/JP:				
C (Continuati	on). DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where appropriate, of the relevant	ant passages	Relevant to claim No.		
A	YAN C et al., HLA-A gene polymorphism de high-resolution sequence-based typin Northern Chinese Han people, Geno.Prot.Bioinfo.(2003/Nov), Vol.1, No.4, p.304-309	-	1 - 4		
A	CARTER AS et al., Nested polymeras reaction with sequence-specific primer for HLA-A, -B, and -C alleles: detemicrochimerism in DR-matched individu Blood. (1999), Vol. 94, No. 4, p. 1471-14	es typing ction of als,	1 - 4		
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